

LCD Colour Digital Television Receiver



User's manual

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I Precautions

■ Storage

1. Keep this product away from extremely hot or cold places. The storage temperature ranges from -20°C to 60°C and the working temperature from 0°C to 40°C.
2. Do not use this product at damp environment like bathtubs, wash basins, kitchens, washtubs, as well as basements, swimming pools or similar places.
3. Do not expose your TV set to high humidity, dust or oil smoke.
4. Do not throw or drop this product.
5. Do not subject this device to the inside of a case or strong vibrations, avoiding strong collision.
6. Do not push on or scrub this product with sharp objects.

■ Maintenance

1. Disconnect all cables of this device at first before cleaning.
2. Wipe the enclosure, screen and keys using soft cloth with a little soft detergent on.
3. Do not use polishing cloth, abstergent, and all types of propellants or chemical detergents like alcohol and benzene to clean your device.

Warning:

1. Do not watch television programs or turn your TV set on for your own and others' safety.
2. It is very dangerous to watch television programs or operate the TV set while driving.

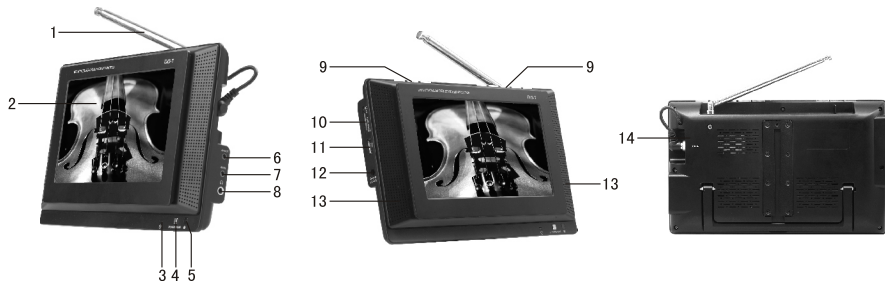
Special Note: Bright spots or dark spots may appear on the screen. This is a normal phenomenon associated with the active matrix display technology and is not a sign of malfunction. Do not attempt to maintain. For any failures, please turn off your TV set immediately and contact us or your dealer. This device integrates a great deal of fine electronic components. Disassembly or alternation may result in damages or breaks.

II Accessories

1. Car power adapter
2. AC power adapter
3. 75-Ω antenna cable
4. Remote control
5. AAA battery
6. AV cable
7. Telescopic antenna

* Open the package and make sure all the items are included.

III Appearance



1. Telescopic antenna
2. TFT-LCD
(Liquid Crystal Display)
3. Power indicator:
Red: Standby
Green: Power-on
4. POWER/MODE:

- Standby/Operation mode
shift button
5. Remote-control receive
window
6. AV Output
7. AV Input
8. Headphone jack


9. Panel buttons
10. SD/MMC/MS type CARD
input port
11. USB connect Jack
12. DC Input
13. Speaker
14. Antenna input Jack

IV Instruction of control panel buttons

- 1. EXIT:** return key: press to exit current menu and return to previous menu.
- 2. MUTE/PICT:** Press to switch between MUTE and sound under all mode. Long press for 3 seconds as Picture mode under TV/AV mode, under picture switch mode as “STANDARD”, “SOFT”, “VIVID”, “LIGHT”, “PERSONAL”, Press for Picture adjust/panel display mode/reset selection key under DTV mode, able to choose brightness, contrast, chroma, hue (only available with NTSC system), panel display mode and reset.
Note: keep pressing for 3 seconds have no functions under OSD menu in DTV mode.
- 3. MENU:** menu key
- 4. VOL-/◀:** Under DTV mode, press as direction key with DTV menu, press as VOL- key without DTV menu: Press as VOL- key under ATV mode. Under CARD mode, when playing music and video, press as VOL-, press as leftward key when exit playing.
- 5. VOL+/▶:** Under DTV mode, press as direction key with DTV menu, press as VOL+ key without DTV menu: Press as VOL+ key under ATV mode. Under CARD mode, when playing music and video, press as VOL+, press as rightward key when exit playing.
- 6. OK/MUSIC:** Under DTV mode: press as confirm key under Menu surface, press to display program list without menu surface. Under CARD mode: press as confirm key under Menu surface. After enter Picture viewing mode, press for picture display mode, long press for background music function. Under ATV mode: keep press for 3 seconds for auto-search
- 7. CH-/▼:** Under DTV mode, press as direction key with DTV menu, press as CH- key without DTV menu: Press as CH- key under ATV mode. Press to select downward under CARD MODE.
- 8. CH+/▲:** Under DTV mode, press as direction key with DTV menu, press as CH+ key without DTV menu: Press as CH+ key under ATV mode. Press to select upward under CARD MODE.



V Remote control button

1. **Power:** standby/off key.
2. **MUTE:** Mute key.
3. **0-9:** digit keys.
4. **--/:** channel direct selection and P/N switch key. Press for channel direct selection under ATV mode. Press as P/N switch under DTV mode.
5. : return key.
6. **CH+/▲**: channel selection/ upward key.
7. **CH-/▼**: channel selection/ downward key.
8. **VOL+/▶**: volume up/rightward key.
9. **VOL-/◀**: volume down/leftward key.
10. **OK:** confirm key.
11. **MENU:** Menu key.
12. **EXIT:** return key: press to exit current menu and return to previous menu.
13. **“RED” key:** corresponding menu red function key.
14. **“GREEN” key:** corresponding menu green function key.
15. **“YELLOW” key:** corresponding menu yellow function key.
16. **“BLUE” key:** corresponding menu yellow function key.
17. **INFO:** Display current Channel information; Under MENU, press to view software code.
(only available under DTV mode).
18. **TEXT:** Turn teletext function: press OK to adjust the transparency level of display background. (Only available under DTV mode).
19. **EPG:** press to display electronic program guide (only available under DTV mode).
20. **SUBTITLE:** Press to turn ON/OFF subtitles. (only available under DTV mode).

- 21. P. ADJ:** Picture adjustment key (only available under DTV mode). Note: Under Menu surface, press this key will not have function..
- 22. AUDIO:** Sound track switch key. (only available under DTV mode).
- 23. SEARCH:** Search key.
- 24. LANG:** OSD language switch key.
- 25. FAV:** ON/OFF my favor channel function. (only available under DTV mode)
- 26. GUIDE:** Nine picture Guide function. (only available under DTV mode)
- 27. PAUSE:** (only available under DTV mode)
- 28. TV/RADIO:** TV channel and radio channel switch key. (only available under DTV mode)
- 29. PICT:** Picture mode key, press for “STANDARD” , “SOFT” , “VIVID” , “LIGHT” , “PERSONAL” .
- 30. SLEEP:** sleep turn off time setting key.
- 31. MODE:** Press to switch between TV/DTV/AV.

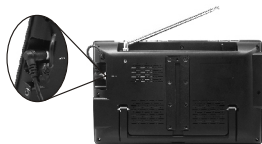
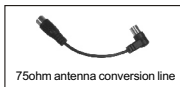
VI Connection of Main Interfaces

6.1. Connection of Power Supply:

Align the power supply plug on AC adapter with the jack on the machine rear cover marked with DC.

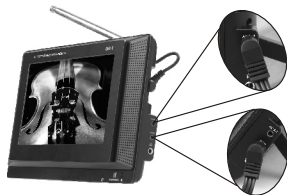


6.2. Connection of Antenna Cable:



Align one end of the attached antenna cable plug in the antenna jack on TV set and the other end plug in the external antenna jack.

6.3. Connection of AV convert Cable:



6.3.1.AV input: Insert the external video cord into the yellow port of the AV convert cable, the left sound track into the white port and the right sound track into the red port. Then plug the AV convert cord in AV IN jack.

6.3.2.AV output: Insert the external video cord into the yellow port of the AV convert cable, the left sound track into the white port and the right sound track into the red port. Then plug the AV convert cord in AV OUT jack

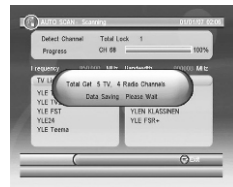
(Note: AV OUT is only available in DTV and CARD mode) .

VII DVB-T Installation Guide

When first time usages or program list do not exist, the DVB-T Installation Guide will display once the device is turned ON. Please set up as the following Pictures.

Press ▲▼ key to move the cursor to your wanted item, press ◀▶ to adjust with your local DVB-T standard setting.

Note: If the “COUNTRY” setting is incorrect, less or even no channel can be received. After setting, press “OK” key for auto scan or press the “GREEN” key on the remote control for manual scan.



7.1 Auto-Scan will empty the program list, then following your selected COUNTRY to scan the local DVB-T signal frequency and bandwidth. It might take quite a while for the Auto-Scan, program will be autosave. Press “EXIT” to stop Auto-Scan.

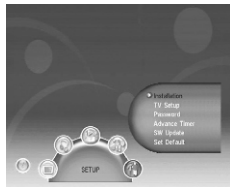
7.2 Manual-Scan enables to add Scan program into the program list, while the exist program list will not be deleted. The same frequency and bandwidth channel will be covered. Choose the Channel number for Manual-Scan (press the “RED” key on the remote control to input directly digit numbers to edit channel number) or insect correct frequency and bandwidth, then press “OK” to start Manual-Scan.



VIII DVB-T MENU Operation Guide

Press “MENU” from the remote control or from the device to enter MENU surface, there will be five menu and some sub-menu under. Press ◀▶ to switch each menu, then press ▲▼ to select sub-menu, press OK to enter sub-menu.

Press ▲▼ to move cursor to your wanted location.



8.1 SETUP

There's 6 sub-menu under “SETUP”, press to setup specifications and return to factory default, please confirm “SETUP” before receiving channels.

8.1.1 Installation

- (1) Antenna Setting: setting for ON/OFF the Antenna.
- (2) Country Setting: select country according to your location.
- (3) OSD Language: OSD Language setting.
- (4) Audio Language: Language setting according to receiving signals supported Languages.
- (5) Subtitle Language: Language setting according to receiving signals supported Languages.
- (6) LCN: ON/OFF for logical program list.

8.1.2 TV Setup

Under “TV Setup” Menu for the following items:

- (1) TV format: Display mode, '4:3LB', '4:3PS', '16:9LB' and '16:9FIT'.
- (2) TV mode: AV output system, selection of 'PAL', 'NTSC', 'AUTO'.

- (3) OSD Transparency: Setting for OSD transparency levels.
- (4) Banner Display Time: Menu banner time display setting.
- (5) Video Enhancement: Setting for Picture enhancement.

Note: Some items request supported by the TS.

8.1.3 Password

Under “Password” , you can setup items you wish to lock with your password (ie: MENU, Channels) or change password.

- (1) Setup Menu Lock: when this function is activate, user will need to enter password when re-enter Menu.
- (2) Channel Lock: when this function is activate, user will need to enter password if wish to enter TV/Radio list or Auto-Scan and Manual-Scan.
- (3) Censorship Lock: Able to setup according to age groups.
- (4) Change Password: Enter both current and new password to change password.

The default password of the device is 0000, please memorize after changing password.



8.1.4 Advance Timer

Users can setup appointed time to watch appointed Channels, start and finish time can be setup according to the timer system in this device, please confirm with the timer system from this device before setting up; Detailed guide as follow:



8.1.5 SW Update

Available to be updated via other device or external memory devices.

8.1.6 Set Default

Press ▲▼ key to move the cursor to “Set Default”, press “OK” to confirm. After Set Default, program list will be deleted and return to first time installation Guide surface.

8.2 TV/RADIO

For “TV” and “Radio”, “List” and “Guide” operation will remain the same in both “TV” and “RADIO” mode, below are the operational for “TV”.

8.2.1 Enter TV List Menu, press ▲▼ to select the channels you wish to edit, press ◀▶ to select the item you wish to edit, from left to right as: Favorites, Lock, Edit, Skip Delete and Search. Follow the below picture to operate, press “YELLOW” key to save setup.



When LCN setup as “OFF”, (see 8.1.1) the following Menu surface will be appear: Move and Sort are for setting channels in order.



8.2.2 Enter “TV Guide” Menu, under the program guide, you can see the current channels display list, press ▲▼ to move the cursor to the channel you wish to watch, press ◀▶ key to enter the Guide timer of the selected Channel, press “RED” key to move Channel to “Advance Timer” .



8.3 MULTIMEDIA

Operation Guide for “USB&CARD” :

This device supports many brands of USB, Multi Media Card (MMC), SD, Memory Stick (MS) in the market.

1. The memory of USB&CARD must within 2G.
2. This device supports JPEG, MP3, WMA, VCD and AVI (donot support DIVX3.11 format and AC3 audio zip format.

Note:

1. TS under 1000KBP/S can be play very smoothly otherwise it may stop.
2. The USB plug do not support Card reader, mobile harddisk, MP3 and MP4 device.

8.3.1 Enter “My Album” , press “INFO” to change drivers as shows below:

Press ▲▼ key to move cursor to select “Device” , press ◀▶ to switch drivers, press “OK” to return to different file Menu surface. Press ▲▼ ◀▶ key to select the picture you wish to view, press “OK” to confirm as follow:



Press “INFO” from the remote control for viewing tools, press ◀▶ key to move the picture for clock wise or anti-clock wise, press ▲▼ key to select next or previous picture, press “RED” from the remote control for Zoom in function, after zoom in, press ▲▼◀▶ key to move picture. “GREEN” key for ON/OFF background music, “YELLOW” key for leftward or rightward, “BLUE” key for upward or downward. When background music is ON, press ◀▶ to for volume up or volume down; background music play surface remains the same as in music play surface, please refer to 8.3.4.



8.3.2 When viewing Picture, press “EXIT” key to enter 12 picture Guide mode.

Press ▲▼◀▶ key to select the picture you wish to view, press “OK” to view, press 'BLUE' in the remote control to return to the original file Menu.



8.3.3 When viewing Picture, press “OK” key to enter Picture playing mode and auto-switch to different effect to view the picture.

Press “INFO” from the remote control for playing tools, press ▲▼ key to select previous or next pictures, press “RED” for play/pause; “GREEN” key to open background music surface, background music play surface remains the same as in music play



surface, please refer to 8.3.4: “YELLOW” key for circulate mode, able to select circulate play or single play; “BLUE” key for picture play speed setting, fast, medium and slow

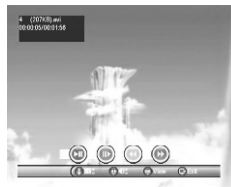
8.3.4 Enter My Music surface, press “INFO” key to change driver (mentioned in 8.3.1)

Press ▲▼◀▶ key to select the music you wish to play, press “OK” to confirm, press “RED” from the remote control for play/pause, “GREEN” key for stop, “YELLOW” key for repeat, press this key respectively can select “Repeating”, “Repeat all”, “Random”, “Repeat OFF”; “BLUE” key for fast forward, press this key respectively can select X2, X3, X4, play. ◀▶ Key in this case is volume key, when the music is not playing, press this key as ◀▶ key.



8.3.5 Enter “My Movie” surface, press “INFO” key to change driver (mentioned in 8.3.1) Press ▲▼◀▶ key to select the item you wish watch, Press “OK” key to play, as follow:

Press “INFO” for play tools, press ▲▼ key to select previous or next movie, press “RED” key for play/pause; “GREEN” key for step forward; “YELLOW” key for fast backward, press this key respectively for backward X2, X4, X8, X16, X32 and play; “BLUE” key for fast forward, press this key respectively for forward X2, X4, X8, X16, X32 and play; when playing movie, press “AUDIO” from the remote control to switch left/right sound track.



8.4 GAME

Under “GAME” menu, there will be 3 sub-menu “Gomoku”, “Calender”, “Calculator”. Select the sub-menu, press “OK” to enter.

Note: Calculator supports maximum 9 digit numbers, “INFO” as confirm key.

IX ATV Menu

Press the MENU button to pop up the following menu:

- Press ▲ or ▼ to select one of the three entries above.
Press ◀ or ▶ to open the submenu.

MAIN MENU

PICTURE
SYSTEM
PRESET




9.1 PICTURE




- Press ▲ or ▼ to select BRIGHT and press ◀ or ▶ to adjust its analog.
Press ▲ or ▼ to select CONTRAST and COLOUR in turn and adjust the analog in the same way.
Press ▲ or ▼ to select RESET. Then, press ◀ or ▶ to have the analog you have set return to “50”.

PICTURE

BRIGHT	50
CONTRAST	50
COLOUR	50
RESET	

9.2 SYSTEM

-  : Allows you to select the language you want.
- **CLOCK**: Allows you to set the time for auto shutdown.
-  : (Display screen mode) Allows you to switch the mode between 16:9/4:3.
-  : Allows you to revolve the image.
- **BLUE BACK**: Allows you to activate or deactivate this function when there are no signals.

SYSTEM	
	ENGLISH
CLOCK	OFF
	16:9
	1
BLUE BACK	ON

9.3 PRESET

- **POSITION** : Allows you to select a certain channel and activate SWAP, FINE, SEARCH, SOUND-SYS and COLOR-SYS.
- **REMEMBER**: Press ◀ / ▶ to select OFF. Thus, this channel does not display when you change channels. If it is set to be ON, this channel would display on changing channels.
- **AUTO-SEARCH**: Press ◀ / ▶ to start AUTO-SEARCH function. After AUTO-SEARCH, the system will save the channels automatically. After selections of channels, the system will return to the channel number “0” .

PRESET	
POSITION	1
REMEMBER	ON
AUTO-SEARCH	
SWAP	1
FINE	0
SEARCH	551MHZ
SOUND-SYS	DK
COLOR-SYS	PAL

Note:

Before you start the AUTO-SEARCH, please set the SOUND/COLOR as the corresponding local systems. Or, the channel program may have no audio or have cacophony while the image may have no colour.

- SWAP: Press ▲ or ▼ to select this entry. Press ◀ / ▶ to change it to your required channel. To confirm, press ▲ or ▼.
- FINE: Use this entry to adjust the channel for perfect signal quality when the signal quality is poor.
- SEARCH: This entry is used to control the current channel. When you SEARCH a signal in this way the receiving indication frequency will stop. This indicates that a perfect position for you to save a channel. If the channel features a poor signal quality, the system will identify it as no signal.
- SOUND-SYS: Press ◀ / ▶ to switch among “I” , “DK” and “BG” in turn.

Note:

1. SOUND-SYS description: “I” refers to 6.0 M, “DK” 6.5 M and “BG” 5.5 M. Please set the system to the local SOUND-SYS.
2. COLOR-SYS description:
 - A. For your selection of “I” mode, the COLOR-SYS refers to PAL-I;
 - B. For “DK” , the system refers to PAL-DK or SECAM-DK;
 - C. For “BG” , it refers to PAL-BG or SECAM-BG;
 - D. For “L” , it refers to SECAM-L.
3. For images without audio or with noise, check whether the audio system is set properly.

- COLOR-SYS: Press the ◀ / ▶ button to switch among PAL, NTSC and SECAM in turn.

Note:

If the signal intensity is very poor or too weak, ill images would still occur with strong noise, swing and bad audio effect no matter how you adjust the antenna. This is not the failure of your TV. Try an open antenna or a cable TV if the telescopic antenna does not work.

9.4 Proper Receiving

9.4.1 Access the setting entries of the “Language” in the System to choose your required OSD language.

9.4.2 Access the setting entries of the “AUTO-SEARCH” and “SEARCH” and make sure whether the systems are set according to the responding transmitting requirements. Refer to Part 9.3 for specific instructions.

9.4.3 Access the setting entries of the “SOUND-SYS” and “COLOR-SYS” and start searching channels according to specific instructions in Part 9.3.

9.4.4 To achieve the best effect for receiving channels, please adjust the direction and angle of your antenna.

X Troubleshooting

The following phenomenon does not indicate failures. Before you contact us for repair, please check your device according to the approaches below.

Problems	Causes
No picture or sound	The AC adapter does not connect to the vehicle adapter properly; Non-permissible power is applied; The power is off.
No signal	Check whether the antenna is located well; Check the parameter of image or region is set correctly; if not, please set or search again.
No sound	Check whether the volume is minimized; Check whether the headset is connected; The signal quality is poor; The sound attenuation function is activated; Check whether the audio system in ATV mode is set correctly.
Mosaic images	Check whether the antenna is adjusted properly; The signal strength is too weak.
Signal search failure	Check whether the country and region is set right; Maybe the signal intensity is too poor.

Problems	Causes
Too-dark images	Check whether the brightness and contrast of your display is adjusted well; if not, readjust it.
Mosaic images or slack images/sound occur when the car is moving.	May the signal intensity in this region is too weak. Please try a vehicle digital TV antenna.

XI Specifications

DTV system:

Input frequency: VHF 177.5 MHz - 226.5 Mhz UHF 474 MHz - 858 MHz

Modulate: QPSK/16-QAM/64-QAM

Decode standard: MPEG-2: MP@ML, MPEG-4: SP&ASP

Audio decode standard: MPEG1: LAYER I/II/III, MPEG-2: LAYER I/II

ATV system

Analog receive frequency: DK/I 49.75 MHz - 847.25 Mhz BG 48.25 MHz - 847.25 MHz

Analog color system: PAL/SECAM

General characteristic

Display: Colour TFT-LCD

Screen size: 7 inches

Resolution: 480 (H) × RGB × 234 (V)

Speaker: 40 mm, round, two

Power supply: DC 12 V-24V, 10 W

Connector: Input jack for external antenna; stereo headset jack; audio/video (AV) input jack;
DVB-T/CARD(AV) output jack and input jack for external source

Supported power: Alternating current power supply - AC adapter

Dimension: 232 × 143 × 35 (mm)

Weight: about 610 g

Working temperature: 0°C-40°C

Storage temperature: -20°C-60°C

Warning

- This manual is for your reference only. The information in the Manual is subject to change without prior notice. The company reserves the right to explain for any unknowns, errors or omissions.
- No elements are recoverable inside your device. Do not attempt to open it to improve your TV set. The high-tension supply inside may cause dangers. The maintenance and adjustment of your TV set must be operated by professionals.

Warning

- To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.
- The mains plug is used as the disconnect device, the disconnect device shall remain readily operable, and it shall be disconnected from the mains completely.
- The plug is used as disconnect device from the mains supply, the plug shall remain readily operable.
- The apparatus should not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
- No naked flame sources, such as lighted candles, should be placed on the apparatus.

